

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	"10/396118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L2	1	"10/748180"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L3	190	multipath and (first near2 window) and (second near2 window)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L4	7657	370/342	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L5	27	L3 and L4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L6	2	"6567482".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L7	59	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L8	5	"2004091024".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L9	4462	375/316	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L10	7	L3 and L9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L11	2	("5995538").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L12	0	"98108312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L13	42	"108312"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L14	2404	375/147	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L15	5093	rake adj receiver	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L16	102	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L17	58	("maximal ratio") and (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L18	102	rake adj receiver and branch same combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L19	2	"20020150181".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L20	2	"6963727".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L21	3	("maximal ratio") with (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L22	5	("maximal ratio ") same (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L23	325	(MMSE or ("minimum mean squared error")) and (MUD or ("multiuser detection"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L24	87	rake adj receiver and branch same combiner and delay	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L25	20	rake adj receiver and branch same combiner and delay and processor and memory	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L26	2	"20030022680".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L27	2	"6650694".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L28	2	"7103335".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L29	557	375/342	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L30	1	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) with baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L31	3	"7016699".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L32	351	rake adj receiver and branch and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:20
L33	3	L3 and L29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L34	12	multipath same (first near2 window) same (second near2 window)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L35	16	L3 and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L36	2	"20010014116".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L37	6	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) same baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L38	50	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L39	2296	375/148	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L40	21	L3 and L39	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L41	2	"20040091024".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L42	3	"7103094".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L43	2	"7072383".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L44	60	"101594"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L45	0	rake adj receiver and branc and combiner	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L46	2	"5,805,648".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L47	1	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) with multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L48	50	(MMSE or ("minimum mean squared error")) with (MUD or ("multiuser detection")) and baseband	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L49	5	("maximal ratio") same (MUD or ("multiuser detection")) and multipath	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16

## EAST Search History

L50	2	"20020051433".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L51	8	("5881057"   "6128330"   "6301293"   "6317411"   "6370129"   "6466610"   "6473467"   "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L52	3	("6754253").URPN.	USPAT	OR	ON	2007/08/02 22:16
L53	59	time adj diversity and rake with receiver and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L54	3	("6754253").URPN.	USPAT	OR	ON	2007/08/02 22:16
L55	4	time adj diversity with rake and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L56	8	("5881057"   "6128330"   "6301293"   "6317411"   "6370129"   "6466610"   "6473467"   "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L57	8	("5881057"   "6128330"   "6301293"   "6317411"   "6370129"   "6466610"   "6473467"   "6516022").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/02 22:16
L58	14	time adj diversity with CDMA and symbol and window	USPAT	OR	ON	2007/08/02 22:16
L59	55	multipath with spread near symbol and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L60	0	("2001/0046221").URPN.	USPAT	OR	ON	2007/08/02 22:16
L61	172	multipath with spread with symbol and rake	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:16
L62	2	"20010014116".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:21



## EAST Search History

L63	1	"20070160083".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:22
L64	0	"7158475.pn"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:22
L65	2	"7158475".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:23
L66	2	"5946345".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/02 22:23

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multipath "first processing window"

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**Apparatus and method of multi-user detection - Patent 20050141653**

An apparatus comprising: a decoder having at least a **first processing window** unit to detect a desired symbol within a first group of **multipath** components ...

[www.freepatentsonline.com/20050141653.html](http://www.freepatentsonline.com/20050141653.html) - 45k - [Cached](#) - [Similar pages](#) - [Note this](#)

**METHODS AND APPARATUSES FOR PROCESSING OF GLOBAL POSITIONING ...**

... at the same relative position as it did for the **first processing window**. ..... metered delivery) | Next Patent (**Multipath** interference-resistant re. ...

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**Apparatus and method of multi-user detection invention**

In addition, **multipath** components may be referred as diversity signals. ... for example, symbol "0", a **first processing window** 260 may be positioned around ...

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**Apparatus and method of multi-user detection - Patent 20050141653**

... first group of **multipath** components; and allocating a **second processing window** to ...

The method of claim 1, comprising: grouping two or more **multipath** ...

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**Apparatus and method of multi-user detection invention**

In addition, **multipath** components may be referred to as diversity signals. ... 220 (eg group 215) and a **second processing window** 270 may be positioned around ...

[www.freshpatents.com/Apparatus-and-method-of-multi-user-detection-dt20050630ptan20050141653.php](http://www.freshpatents.com/Apparatus-and-method-of-multi-user-detection-dt20050630ptan20050141653.php) - 32k - [Cached](#) - [Similar pages](#) - [Note this](#)

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multipath "second processing window"

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**Methods of synchronizing subscriber stations to communications ...**

The cyclic prefix is a special portion at the beginning of an OFDM **symbol**, and is added mainly to improve the immunity of the OFDM signal to **multipath** ...  
[www.freepatentsonline.com/20070160083.html](http://www.freepatentsonline.com/20070160083.html) - 116k - [Cached](#) - [Similar pages](#) - [Note this](#)

**[PDF] Coexistence Assessment of Industrial Wireless Protocols in the ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
into one data **symbol** and the **second group** of four bits (b ..... when multiplied by the normalized power values, yield the effect of the **multipath**. For ...  
[www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6939/cr6939.pdf](http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6939/cr6939.pdf) - [Similar pages](#) - [Note this](#)

**Office Development**

Properties which are marked as **multi path** (see table above) use a semicolon ( .... The first group of variables specifies a single path, the **second group** ...  
[api.openoffice.org/docs/DevelopersGuide/OfficeDev/OfficeDev.xhtml](http://api.openoffice.org/docs/DevelopersGuide/OfficeDev/OfficeDev.xhtml) - 756k - [Cached](#) - [Similar pages](#) - [Note this](#)

**[PDF] "The GSM System". In: GSM, cdmaOne and 3G Systems**

File Format: PDF/Adobe Acrobat  
is used in the demodulation process to equalise the effects of **multipath** propagation. The ..... The eight remaining slots in the **second group** are used ...  
[doi.wiley.com/10.1002/0470841672.ch2](http://doi.wiley.com/10.1002/0470841672.ch2) - [Similar pages](#) - [Note this](#)

**[PDF] PAM2006**

File Format: PDF/Adobe Acrobat  
**second window** to reduce smaller windows' sensitivity to a small number ..... We first evaluate a simple **multi-path** memoryless policy to randomly select ...  
[www.pamconf.org/2006/papers/pam06-proceedings.pdf](http://www.pamconf.org/2006/papers/pam06-proceedings.pdf) - [Similar pages](#) - [Note this](#)

**[PDF] DS4000 Best Practices and Performance Tuning Guide**

File Format: PDF/Adobe Acrobat  
IBM offers different **multipath** drivers that you can use with your DS4000 ..... If you are cabling a **second group**, repeat step 1 to step 3 and reverse the ...  
[www.redbooks.ibm.com/redbooks/pdfs/sg246363.pdf](http://www.redbooks.ibm.com/redbooks/pdfs/sg246363.pdf) - [Similar pages](#) - [Note this](#)

**[PDF] Cisco Content Services Switch Basic Configuration Guide**

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This guide uses the following **symbols** and conventions to identify different types ..... ip ecmp - Set the equal-cost **multipath** selection algorithm ...  
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**[PDF] Cisco PIX Firewall Command Reference**

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opens a 1-**second window** of opportunity that may allow non-authenticated users to go

through ..... are using Equal Cost **Multi-Path** (ECMP) in your network. ...  
[www.cisco.com/en/US/docs/security/pix/pix63/command/reference/63\\_cmd.pdf](http://www.cisco.com/en/US/docs/security/pix/pix63/command/reference/63_cmd.pdf) -  
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### Barcode Scanners and Readers: State of the Art

c) second capture optics for optically capturing light from the **symbol** passing in a second direction through the **second window**; ...

[asp.nerac.com/samples/barcode.htm](http://asp.nerac.com/samples/barcode.htm) - [Similar pages](#) - [Note this](#)

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multipath "second window" "desired symbol"

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Transmitting apparatus and method and provision medium - Patent ...... and the provision medium, the first clock and the **second window** signal are ... of an adjacent symbol will flow into the signal of the **desired symbol**. ...[www.freepatentsonline.com/7158475.html](http://www.freepatentsonline.com/7158475.html) - 50k - [Cached](#) - [Similar pages](#) - [Note this](#)Apparatus and a method for telecommunication system - Patent 594634510 shows a simple sketch for a **multipath** propagation between a transmitting ... being subtracted so that only the **desired symbol** sequence y.sub.1 remains. ...[www.freepatentsonline.com/5946345.html](http://www.freepatentsonline.com/5946345.html) - 73k - [Cached](#) - [Similar pages](#) - [Note this](#)Apparatus and a method for telecommunication system - US Patent ...10 shows a simple sketch for a **multipath** propagation between a ... and y3 in the time being subtracted so that only the **desired symbol** sequence y1 remains. ...[www.patentstorm.us/patents/5946345-description.html](http://www.patentstorm.us/patents/5946345-description.html) - 59k -[Cached](#) - [Similar pages](#) - [Note this](#)[PDF] MULTIUSER DETECTION FOR MULTICARRIER COMMUNICATION SYSTEMS by ...

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driven by OFDM's resilience to inter-symbol interference in **multipath** channels. .... time enables the receiver to capture the entire **desired symbol** energy ...[krex.k-state.edu/dspace/bitstream/2097/147/1/SamerHijazi2006.pdf](http://krex.k-state.edu/dspace/bitstream/2097/147/1/SamerHijazi2006.pdf) -[Similar pages](#) - [Note this](#)Transmitting apparatus and method and provision medium - Patent ...... signal and a **second window** signal in accordance with the first window signal; ... transmission system has tolerance against **multipath** interference, ...[www.patentgenius.com/patent/7158475.html](http://www.patentgenius.com/patent/7158475.html) - 53k - [Cached](#) - [Similar pages](#) - [Note this](#)

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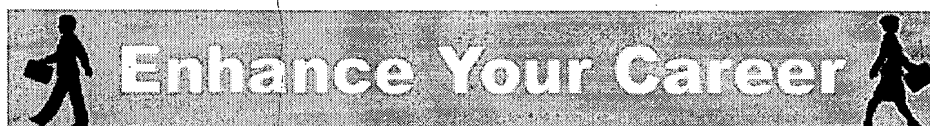
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multipath AND "second window" AND symbol

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Searched for:: :All of the words:multipath AND "second window" AND symbol

Found:: :52 total | 0 journal results | 45 preferred web results | 7 other web results

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- ☐ 1. **AN APPARATUS AND A METHOD FOR A TELECOMMUNICATION SYSTEM**  
**KARLSSON, Jonas / TEDER, Paul / EWERBRING, Lars-Magnus, PATENT COOPERATION TREATY APPLICATION,** Feb 1998  
patno:WO9808312  
...this way the energy in the **symbol** sequence yj is better utilized...the invention for detecting **symbols** out of DS-CDMA signals from...common radio channel 702 without **multipath** propagation. The device comprises...and generates the spread down **symbol** sequences. The receiver means...  
**Full text available at patent office. For more in-depth searching go to** LexisNexis®  
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[similar results](#)
- ☐ 2. **Path search method for spread spectrum communication systems and receiver using the method**  
**Saito, Tadashi / Ohsuge, Michihiro / Tamura, Kouiti, EUROPEAN PATENT APPLICATION,** Aug 2001  
patno:EP1126627  
...regarding the respective **multipath** components, the receiver...spreading cycle in one **symbol**, is normally needed...one window) of one **symbol** (t0 to t5) around a...received signals having **multipath** components at predetermined...forms at least one **second window** in the search range...  
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**Karlsson, Jonas / Teder, Paul / Ewerbring, Lars-Magnus, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT,** Aug 1999  
patno:US5946345  
...this way the energy in the **symbol** sequence y.sub.1 is better...the invention for detecting **symbols** out of DS-CDMA signals from...common radio channel 702 without **multipath** propagation. The device comprises...and generates the spread down **symbol** sequences. The receiver means...  
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- ☐ 4. [Method and apparatus for detecting data sequences](#)  
**Echavarri, Javier / Heaton, Robert Barnard**, *EUROPEAN PATENT APPLICATION*, Feb 2003  
 patno:EP1282257  
 ...8  $\mu$ s, equivalent to one or two OFDM **symbols**. A section type C has a length equal to two full OFDM **symbols** and comprises two sub-sequences each...i samples, with  $i = 1.. N(p) - 1$ . The **second window**,  $P(n - 80)$ , consists of the limiter...  
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- ☐ 5. [WIRELESS COMMUNICATIONS METHODS AND SYSTEMS FOR LONG-CODE AND OTHER SPREAD SPECTRUM WAVEFORM PROCESSING](#)  
**OATES, John H.**, *PATENT COOPERATION TREATY APPLICATION*, Sep 2002  
 patno:WO02073937  
 ...user for the mth **symbol** period, [h.p iS...lag for the pth **multipath** component for the...lag for the pth **multipath** component for the Ah user, m is a **symbol** period, Tk is a...user for the mth **symbol** period, Tk.p) iS...lag for the pth **multipath** component for the...  
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- ☐ 6. [Path search method of spread spectrum communication system and receiver using the method](#)  
**Saito, Tadashi / Ohsuge, Michihiro / Tamura, Kouiti**, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Aug 2001  
 patno:US20010014116  
 ...to time, which is shorter than one **symbol**, and in the vicinity of the center...is referred to as a search window (**second window**). The **second window** is one of two...windows have the search range where one **symbol** time is equally divided into five...  
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- ☐ 7. [Correlator co-processor for CDMA rake receiver](#)  
**Brown, Katherine G. / Sriram, Sundararajan / Honore, Francis / Lee, Yuan Kang**, *EUROPEAN PATENT*, Aug 2001  
 patno:EP1128565  
 ...as a diversity combiner of **multipath** propagated signals. RAKE receivers...dedicated to processing the **multipath** propagated signals in a predetermined...accumulations such as accumulating "**symbol**" energy values and returning...output buffers such as a Finger **Symbol** Buffer, DPE Buffer, LCI Buffer...  
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- ☐ 8. [WIRELESS COMMUNICATIONS METHODS AND SYSTEMS FOR SHORT-CODE AND OTHER SPREAD SPECTRUM WAVEFORM PROCESSING](#)  
**VINSKUS, Michael J.**, *PATENT COOPERATION TREATY APPLICATION*, Sep 2002  
 patno:WO02073230  
 ...that represents correlations among **multipath** signal amplitudes associated with...detection statistics corresponding to the **symbols** as a function of the correlation...commensurate with a rate of change of the **multipath** amplitudes associated with these...  
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9. RECEIVER FOR WIRELESS TELECOMMUNICATION STATIONS AND METHOD  
**REZNIK, Alexander**, *PATENT COOPERATION TREATY APPLICATION*, Aug 2003  
patno:WO03069793  
...carrier, frequency, code, **symbol**, frame and network synchronization...components due to distinct **multipath** components. This may happen...single-path components in a **multipath** channel and are unable to...probability of detection for **multipath** fading (Case 1). [00057] Figure...  
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10. DIRECT-PATH-SIGNAL DETECTION APPARATUS AND ASSOCIATED METHODS  
**SHREVE, Gregory A.**, *PATENT COOPERATION TREATY APPLICATION*, Feb 2003  
patno:WO03010897  
...received RF signal is received via a **multipath** propagation medium. - 2 The threshold...transmission of a radio-frequency pulse in a **multipath** propagation medium. The RF apparatus...transmit a radio-frequency pulse into a **multipath** propagation medium. The receiver circuitry...  
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11. A communication protocol system and method for transferring data via satellite  
**Bedwell, Thomas E**, *UNITED KINGDOM PATENT APPLICATION*, May 2000  
patno:GB2343595  
...alleviate the effects of **multipath** propagation. Rate 1/2, constraint...channel operates at 1200 **symbols/s** with a fixed length frame...transmission rate is 600 **symbol/s** for current generation satellites and 1200 **symbol/s** for future generation...  
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12. CDMA receiver having a controllable search range and method for controlling the same  
**Miura, Tetsuya**, *EUROPEAN PATENT*, Nov 2000  
patno:EP1052783  
...through a plurality of paths, namely, a **multipath** in the CDMA system and, therefore, **multipath** fading should be removed from the radio...supplied with radio signals through the **multipath** and a searcher for searching such **multipath**...  
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13. METHOD AND APPARATUS FOR TRACKING THE MAGNITUDE OF A TRANSMITTED SIGNAL  
**McCARTY, Robert, Joseph, Jr. / TRIVEDI, Akshaya**, *PATENT COOPERATION TREATY APPLICATION*, May 2001  
patno:WO0139450  
... $k = 0, 1, 2, \dots$  (number of **symbols** =  $n$ ) as:  $n-1$  average  $I M(k)$ ...the elimination of the  $n-1$  **symbol** time lag induced from the first...is accomplished by sliding a **second window** backwards 7 through the array...then used to normalize the **symbols** to the lower ring value. For...  
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14. article.dvi [PDF-84K]  
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Highlights of Statistical Signal and Array Processing June 29, 1998 1 Background and Overview section written by Alfred Hero Many engineering applications require extraction

of a signal or parameter of interest from degraded measurements.  
[<http://www.eecs.umich.edu/~hero/Preprints/SPMarticle98...>]  
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- ☐ **15. No Title** [PDF-288K]  
May 2002  
...corresponding significant conditions of encoding are called "1" and "0." Synonyms marking pulse, marking signal. 2. A **symbol** or **symbols** that indicate the beginning or the end of a field, of a word, or of a data item in a file, record, or block. marker...  
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- ☐ **16. DISSZENT.PDF** [56K]  
Jan 2002  
...102 List of **Symbols**...channel is its excessive **multipath** propagation property...therein. As a result of **multipath** propagation a spread...the system experiences **multipath**. Narrow-band radio systems...dispersion causing inter-**symbol** interference. For the...  
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- ☐ **17. Wireless communications systems and methods for cache enabled multiple processor based multiple user detection**  
**Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. / Greene, Jonathan E. / Jenkins, William J. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Dec 2003  
patno:US20030231702  
...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0138]FIG...processing logic 118 and **symbol** rate processing logic 120...  
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- ☐ **18. IBM Ultrium Tape Device Drivers: Installation and Users Guide** [PDF-117K]  
Oct 2003  
...pause . . . . . 227 delay . . . . . 227 system . . . . .  
... 228 **symbols** . . . . . 228 exit. . . . . 228 **Symbolic**  
Values . . . . . 228 De  
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- ☐ **19. Wireless communications systems and methods for nonvolatile storage of operating parameters for multiple processor based multiple user detection**  
**Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. / Greene, Jonathan E. / Cantrell, Paul E. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Oct 2003  
patno:US20030202559  
...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0127]FIG...processing logic 118 and **symbol** rate processing logic 120...  
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- ☐ **20. Wireless communications systems and methods for multiple processor based multiple user detection**  
**Oates, John H. / Imperiali, Steven R. / Fuchs, Alden J. / Jacques, Kathleen J. /**

**Greene, Jonathan E. / Jenkins, William J. / Lauginiger, Frank P. / (...) / Vinskus, Michael J., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Oct 2003  
patno:US20030202566

...designed to detect a different **multipath** component of the user signal...to codes that exceed one **symbol** period; the latter, to codes that are a single **symbol** period or less. [0136]FIG...processing logic 118 and **symbol** rate processing logic 120...

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- ☐ 1. **AN APPARATUS AND A METHOD FOR A TELECOMMUNICATION SYSTEM**  
**KARLSSON, Jonas / TEDER, Paul / EWERBRING, Lars-Magnus, PATENT**  
**COOPERATION TREATY APPLICATION**, Feb 1998  
patno:WO9808312  
...Figure 10 shows a simple sketch for a **multipath** propagation between a transmitting antenna...time being subtracted so that only the **desired symbol** sequence yj remains. In this way the...on a common radio channel 702 without **multipath** propagation. The device comprises a...  
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**Karlsson, Jonas / Teder, Paul / Ewerbring, Lars-Magnus, UNITED STATES PATENT**  
**AND TRADEMARK OFFICE GRANTED PATENT**, Aug 1999  
patno:US5946345  
...FIG. 10 shows a simple sketch for a **multipath** propagation between a transmitting antenna...time being subtracted so that only the **desired symbol** sequence y.sub.1 remains. In this way...on a common radio channel 702 without **multipath** propagation. The device comprises a...  
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[Vehicular Technology Conference, 2002. VTC Spring 2002. IEEE 55th](#)  
Volume 3, 6-9 May 2002 Page(s):1247 - 1251 vol.3  
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- ☐ 3. **Windowed DFT based pilot-symbol-aided channel estimation for OFDM systems in multipath fading channels**  
Baoguo Yang; Letaief, K.B.; Cheng, R.S.; Zhigang Cao;  
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- ☐ 4. **Timing phase estimator overcoming Rayleigh fading for OFDM systems**  
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- ☐ 5. **Three-step cell search algorithm for broadband multi-carrier CDMA packet access**  
Hanada, Y.; Higuchi, K.; Sawashi, M.;

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- ☐ 6. **Extended one-shot decorrelating detector for asynchronous DS/CDMA systems in multipath fading channels**  
Jee Woong Kang; Kwang Bok Lee;  
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Volume 3, 15-18 May 2000 Page(s):2034 - 2038 vol.3  
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Jiang, Jun; Tang, Tian; Zhang, Yongjing; Zhang, Ping;  
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- ☐ 9. **An OFDM receiver with smoothed FFT-window and RLS-MLSE for fast multipath environments with large delay spread**  
Suyama, S.; Suzuki, H.; Fukawa, K.;  
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- ☐ 11. **Timing synchronization and frequency offset estimation for Ultra-Wideband OFDM systems**  
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- ☐ **12. Code timing acquisition using an antenna array for asynchronous DS-CD near-far environment**  
Chia-Chang Hu; Reed, I.S.; Xiaoli Yu; Thanyasrisung, P.;  
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Miki, Y.; Sawahashi, M.;  
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Volume 31, Issue 19, 14 Sept. 1995 Page(s):1628 - 1630  
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- ☐ **14. Distributed MIMO-CDMA system: effects of spreading sequences on sum**  
Zhi Ni; Daoben Li;  
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- ☐ **15. Blind adaptive receiver for coded multicarrier DS-CDMA systems in multi channels**  
Cances, J.P.; Meghdadi, V.;  
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- ☐ **16. Joint timing and frequency synchronization for IEEE 802.16 OFDM system**  
Yanxin Yan; Tomisawa, M.; Yi Gong; Yong Liang Guan; Gang Wu; Choi Look  
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